

**From:** Chiara Clemente  
**To:** pmaclaggan@poseidon1.com  
**CC:** Brian Kelley; David Barker; Deborah Woodward; Mike McCann  
**Date:** 4/17/2008 9:48 AM  
**Subject:** Poseidon's CDP Plan - questions regarding IM & E assessments

Dear Mr. MacLaggan,

After discussing the issue with Debbie Woodward, we thought that perhaps a meeting isn't necessary to obtain the clarifications we need to proceed with our analysis. Rather, it would be most helpful if you, or your consultant(s), could confirm/clarify a couple aspects of the entrainment and impingement assessments in the Flow, Entrainment and Impingement Minimization Plan (March 6, 2008) via e-mail, in the next couple of days. Please see below.

#### 1. ENTRAINMENT

Based on our review of the entrainment assessment in the Plan, it appears that the assessment...

(a) characterizes larval concentration in entrained water using in-plant samples, i.e., two, 24-hour samples collected near the CDP intake in the EPS discharge stream on June 10, 2004 and May 19, 2005;

(b) characterizes larval concentration in source water using source water samples, i.e., thirteen, 24-hour sample events per station collected at four lagoon (L1-4) and five nearshore (N1-5) stations, monthly from June 10, 2004 through May 19, 2005;

(c) does not draw upon the monthly samples taken in the lagoon near the entrance to the EPS intake structure (station E1); and,

(c) therefore, is for CDP/EPS co-operation rather than CDP stand-alone operation.

**Is this understanding correct? Do you concur that the entrainment assessment provided in the Plan is for co-operation rather than stand-alone operation?**

#### 2. IMPINGEMENT

Based on our review of the impingement assessment in the Plan, it appears that the daily biomass of impinged fish (0.96 kgs/day) may have been incorrectly calculated.

(a) Attachment 2 appears to present counts and weights of impinged organisms found during each of the 24-hour sample events conducted weekly from June 24, 2004 through June 15, 2005, i.e., 52 sample events, each representing 24-hour impingement;

(b) Table 5-1 appears to present - not annual count and weight totals prorated to 304 MGD as indicated by the caption - but rather line totals (by taxa) of the counts and weights from Attachment 2, i.e., Table 5-1 appears to present 52-day totals with no adjustment for flow on the day of sampling, no interpolation for the days between sample events, and no prorating to 304 MD; and,

(c) therefore, calculation of the daily biomass of impinged fish by dividing the un-interpolated, un-prorated Table 5-1 total weight (351,672 grams) by 365 days appears to be in error.

**Is the above staff interpretation correct? If not, then could you please let me know which of the above statements regarding Attachment 2 and/or Table 5-1 is wrong, and why?**

Thank you for your time and attention on this matter,

Chiara

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